

**ELECTRODEPOSITION BATHS CONTAINING METAL SALTS AND
METHODS RELATED THERETO**

ABSTRACT

5

Provided is an improved electrodeposition bath including a resinous phase dispersed in aqueous medium. The resinous phase contains (a) an active hydrogen-containing ionic electrodepositable resin and (b) a curing agent adapted to react with the active hydrogens of (a). The improvement
10 constitutes the inclusion of at least one rare earth metal compound derived from a metal selected from magnesium, strontium, barium, and mixtures thereof. The metal compound is present in an amount ranging from 1 to 10,000 parts per million of total metal provided that not more than 1,000 parts per million is in the form of soluble metal. A method of electrocoating
15 using the electrodeposition bath is also provided.